

INFORMATION SHEET

ORDER NO. R5-2005-_____
STEPHEN J. SCHUSTER AND SIERRA MOON HOMEOWNERS' ASSOCIATION
WASTEWATER TREATMENT FACILITY
BUTTE COUNTY

Stephen J. Schuster and Sierra Moon Homeowner's Association propose to discharge up to 50,000 gallons per day of tertiary-treated and disinfected domestic wastewater to subsurface emitters in a raised soil bed. About four feet of soil will be imported to the disposal area to provide five feet of unsaturated depth between the subsurface drip lines and highest anticipated groundwater. The Sierra Moon Subdivision consists of 119 single-family lots and approximately 135 acres of open space. The total project area is 300 acres.

Secondary tertiary treatment will be accomplished by modified sequencing batch reactors (SBRs) each consisting of an equalization tank, aeration tank, and batch clarifier. Wastewater will be tertiary treated and disinfected by filtration (activated carbon) and ozone. Solids will be subject to aerobic digestion, and stabilized solids will be periodically removed by septic pumper truck and hauled to an approved facility. Treated wastewater will be discharged to subsurface drip lines buried 6 to 12 inches below the surface of a 4-foot thick raised soil bed. Replacement disposal area has been provided.

Design influent strength to the SBRs (after primary treatment) is BOD, 204 mg/L; TSS, 181 mg/L; and Total Nitrogen-N, 36 mg/L. Projected effluent quality is BOD, <10 mg/L; TSS, <10 mg/L; Total Nitrogen-N, <7 mg/L; total coliform organisms, <2.2 MPN/100mL. This Order contains effluent limitations to ensure the treatment system is being properly operated and that water quality is protected.

Surface water drainage is to Mud Creek. Mud Creek is tributary to Big Chico Creek.

RB: sae
18 January 2005